## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Yuichi MATSUDA

Application/Control No. 09/878,424, Filed: 06/12/2001

for: FIRE-RETARDING THERMOPLASTIC RESIN COMPOSITION

Honorable Commissioner of Patents and Trademarks
United States Patent and Trademark Office
Washington, D. C. 20231

Sir:

## DECLARATION UNDER 37 CFR 1.132

- I, Yuichi MATSUDA, declare and state that:
- 1. In March, 1994, I was graduated from Graduate School of Osaka Municipal University, with special study of high-polymer chemistry.
- I was employed by Ube Industries, Ltd. in April, 1994. Since then, I worked for the company in the field especially relating to Polymer Material. In May 1996, I was temporarily transferred to Toyota Gosei K.K., Interior Furnishing Technolory Department, where I was engaged in development research for non-halogen fire-retardant polypropylene resin. In October 2001, I was transferred to Mitsui Chemicals, Inc. Since then, I have been engaged in development research for non-halogen fire-retardant polypropylene resin.
- 2. Concerning the above-identified application, I

carried out the following experiment.

## Experiment

## Example 11 and Comparative Examples 7 to 13

Procedures of Example 10 were followed except that the constituent resin composition was changed as given in Table 3. The results are recited in Table 3.

Resin Composition (in wt. part) and Material Properties of Test Specimen

							1		
		Exam-			Comparative	ative Exam	mple		
		11	7	38	9	01	11	12	13
J105 J705	*1) *2)	- 82	- 80	80	73	80	82	8 2	- & 55
Ammonium polyphosphate Melamine pyrophosphate	*3) *4)	9	20	1 1	- 18	20	ထယ	9	10
Pentaerythritol P.e. dipentaerythritol	*5) *6)	· 9	i i	l ļ		î (	1 1	1 1	_
Hydrotalcite Magnesium hydroxide Aluminum hydroxide	*7) *8) *9)	0.5	1 1 1	- 20	10	- 20	10	0.5	40
Melamine	*10)	-	20	20	-	ı	_	10	1
Titanium tetrabutoxide	*11)	0.5	ŀ	1	ı	ı	1	*	i
Phenolic antioxidant Phosphoric antioxidant Calcium stearate	*12) *13)	0.1 0.2 0.1	0. 1 0. 2 0. 1						
Flame-retarding ability Thermal discoloration 120 °C (%) 150 °C (%) Water-proof ability (I) Water-proof ability (II) Mechanical properties	*14) *15) *16) *18)	V-0	offgr.	offgr.	0.3 0.5 0.5	offgr. 3	offgr. 2 5 X	××○55	offgr.
echanical propert	*	С	×	×	×	×	0	×	×

Notes

in Table 3:

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See *8) of Table 1.
See *8) of Table 1.
See *8) of Table 1.
See *9) of Table 1.
                            See *10) of Table 1.

Scc *11) of Table 1.

Scc *12) of Table 1.

See *13) of Table 1.

See *14) of Table 1.
                                                                                                                                                                                                            The same as *1) of Table 1.
The same as *2) of Table 1.
The same as *3) of Table 1.
The same as *4) of Table 1.
               See *15) of Table
                                                                                                                                                                                                                                                          The same as *1) of Table
  See *16)
                                                                                                                                  A commercial product of Wako Pure Chemical Industrics. Ltd.
                                                                                                     A commercial product of Wako Purc Chemical Industries, Ltd
                                                                                                                   A commercial product of Tokyo Kasei Kogyo Co., Ltd.
of Table 1. of Table 1.
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I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-referenced application or any patent issuing thereon.

Date:	\
;	Yuichi MATSUDA
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